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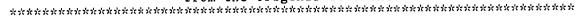
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ABSTRACT

This paper reports on the use of a semistructy ac but open-ended format to gather students' perceptions about the activities and behaviors they experience in different tertiary learning environments and the reasons why they feel the way they do. Tertiary students were asked to write about events they liked, did not like, felt helped their learning, and felt hindered their learning in six learning environments: large group lectures, small group lectures, seminars/tutorials, one-to-one teaching, practical settings on campus, and practical settings oif campus. Subjects included 1,249 students at the Queensland University of Technology in Australia. Findings indicated that students like it when practical application or experiential learning occurs, presentations by the lecturer are clear, discussion of content occurs, class size is appropriate, and the classroom is personalized. Students do not like it when pacing of presentations is not appropriate, presentations are unclear, there is no variety in classroom presentation or activities, the class is not disciplined by the lecturer, and the content and discussion are not structured by the lecturer. There were strong links between what students like and what they claim helps them learn, and vice versa. Appendices contain the questionnaire format and a categorization of statements and reasons. (Contains 17 references.) (JDD)





ED 369 749

TERTIARY STUDENTS' PERCEPTIONS OF IMPORTANT EVENTS THAT OCCUR IN THEIR LEARNING ENVIRONMENTS'

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Introduction

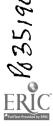
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How students perceive their learning environments is accepted as having a significant influence on the quality of the students' learning outcomes (e.g. Doyle, 1977; Fraser, 1989; Walberg, 1971). Over the past quarter century, an extensive empirical base on student perceptions of their learning environments has been developed at the elementary and secondary school level (Fraser, 1989) and to a lesser extent at the post-secondary level (Fraser and Tregaust, 1986; Marsh, 1981; Stevenson 1990).

The bulk of this research has been based on students responding to a set of predetermined items usually using some form of Likert scale. For example, at the elementary level the My Class Inventory (MCI) (Anderson, Walberg and Fraser, 1981), at the secondary level, the Classroom Environment Scale (CES) (Moos and Trickett, 1974), the Learning Environment Inventory (LEI) (Anderson et al, 1981) and the Individualized Classroom Environment Questionnaire (ICEQ) (Rentoul and Fraser, 1979) and at the tertiary level the College and University Classroom Environment Inventory (CUCEI) (Fraser and Tregaust, 1986), the Students' Evaluation of Educational Quality (SEEQ) (Marsh, 1981) and the Cognitive

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Holding Power Questionnaire (CHPQ) (Stevenson, 1990). The validity and reliability of these scales have been well established by the developers (Anderson et al, 1981; Fraser and Tregaust, 1986; Marsh, 1981; Moos and Trickett, 1974; Rentoul and Fraser, 1979; Stevenson, 1990) and others e.g. the CUCEI (Clarke, 1990) and the CHPQ (Clarke, 1991).

Although all of these instruments are psychometrically sound, they have a number of potential limitations. First, there is always a concern that any a priori set of statements to which individuals respond on a forced-choice format does not necessarily allow the students to indicate what is salient to them. Second, the instruments focus on either just one type of learning environment (e.g. CUCEI is designed to be used with seminar groups up to 25) or the "generic classroom" (e.g. MCI, LEI, ICEQ). Third, each is based on a relatively small number of underlying dimensions manifested as subscales. And fourth, the instruments do not investigate why students perceive their classrooms the way they do.

This paper reports on the use of a semi-structured but open-ended format to gather student perceptions not only about the activities and behaviours they experience in different tertiary learning environments but also to tap into the reasons why they feel the way they do. The semi-structured open-ended approach combined with the focus on perceptions and reasons seek to address the limitations of existing instruments outlined above.

The Data Collection Instrument

The focus in this study is on tertiary students. Therefore, six learning environments were identified as being appropriate for that level of education:



LARGE GROUP LECTURES where there are more than 50 students;3

SMALL GROUP LECTURES where there are between 25 and 50 students;

SEMINARS/TUTORIALS where there are less than 25 students;

ONE-TO-ONE TEACHING, just student and lecturer/tutor;

PRACTICAL SETTINGS ON CAMPUS such as laboratories, gymnasia etc.

PRACTICAL SETTINGS OFF CAMPUS such as work environments, schools, hospitals etc.

For any given learning environment that the students chose, they were given the opportunity to write about events that

- (a) they liked
- (b) they did not like
- (c) they felt helped their learning
- (d) they felt hindered their learning

In each case, they were also asked to indicate why.

The introduction and the questionnaire format for the "like" section is shown below along with a sample response. The formats for the "dislike", "help" and "hinder" sections are very similar and are shown in Appendix 1. The stadents were supply d with at least 10 blank proformas of the type shown in the sample response for each section.



³ Numbers suggested here are approximate.

YOUR PERCEPTIONS OF YOUR LEARNING ENVIRONMENTS

This questionnaire focuses on how events in learning environments influence your learning. You are asked about events which you like, which you don't like, which help you in your learning and which hinder you in your learning.

You may experience a variety of learning environments. These could include:

LARGE GROUP LECTURES where there are more than 50° students:

SMALL GROUP LECTURES where there are between 25 and 50 students;

SEMINARS/TUTORIALS where there are less than 25 students:

ONE-TO-ONE TEACHING, just student and lecturer/tutor; PRACTICAL SETTINGS ON CAMPUS such as laboratories, gymnasia etc.

PRACTICAL SETTINGS OFF CAMPUS such as work environments, schools, hospitals etc.

* Numbers are approximate

EVENTS YOU LIKE (DISLIKE)

For the subject you are now in, think about learning environments you have been in which you felt were pleasant (unpleasant) places to be. In your own words, please indicate what made the environments pleasant (unpleasant) and why. Give as many examples as you can from the different learning environments listed above.

An example of how you may respond is:

In	Seminars			
I like it	when <u>the</u>	<u>lecturer</u>	tutor tr	ies to get
_to know	our names			
because _	it makes 1	for a more	e relaxed	learning
enviro	nment			



Sample

1249 students from 10 Schools in 5 Faculties at the Queensland University of Technology (QUT) in Brisbane Australia completed the questionnaire. The data were collected as part of the Teaching and Learning in Tertiary Education (T&LiTE) Project (Clarke and Taylor, 1993). That Project had as its major aim, the gathering of information from students and their lecturers about learning and teaching in their classrooms and the collaborative use of that information by lecturers and members of the Project team to inform possible changes in lecturers behaviour aimed at improving student learning.

In the sample, 746 (59.7%) were female and 439 (35.2%) were male while 64 (5.1%) did not indicate gender. The average age of the sample was 23.3 years. The distribution of students by course and year of course is shown in Table 1.

Table 1 somewhere here

The data were collected along with all of the other T&LiTE Project questionnaire data by two experienced Research Assistants in August and September 1992 using standardised administration procedures. This was at least 4 weeks into the teaching semester so that the perceptions of the students could be regarded with some confidence as having had an adequate time to stabilise.

Analysis

Categorisation of the Raw Data

The writer and the two Research Assistants collaboratively categorised the "statements" and



the "reasons" of 100 randomly selected students. The "statement" and "reason" responses were classified separately producing 55 categories of "statements" and 47 categories of "reasons". These categories were used by the Research Assistants to classify the remaining data with random "quality control" checks made by the writer. Fortuitously, the categories almost always had positive and negative dimensions e.g. "feedback" was either "provided" or "not provided". Each category of "statement" or "reason" therefore has a positive and negative pole. Sample responses for each category are shown in Appendix 2.

Overall Results

The five most frequently occurring statement responses in each of the like, dislike, help, and hinder sections for the whole sample are shown in Table 2.4

Table 2 somewhere here

The reasons and their frequencies of occurrence associated with each of these statements are shown in Tables 3 to 6.5

Tables 3 to 6 somewhere here

⁴ Note that in Table 2, the sum of the frequencies of the five most frequently occurring categories is less than the "Total Comments" frequency as the latter includes the frequencies of <u>all</u> categories.

⁵ Note that the "Total No of Reasons" frequencies associated with a given statement in Tables 3 to 6 do not match the statement frequency in Table 2 because students often gave more than one reason as to why the liked, disliked etc. a particular behaviour or activity.

Discussion

Some General Comments:

It is important to understand the nature of this data. The written comments vary in length and complexity. Although aggregation does give some general ideas about what the students are saying, it has to be appreciated that, in aggregating this kind of qualitative data, the richness and uniqueness of the individual comments is lost. However, to present this data in a meaningful but succinct way, some aggregation of data has to occur. There have been two levels of aggregation. When the data was fed back to individual lecturers, aggregation based on the categories identified above was used to provide the individual lecturers with a summary of the comments of their students. What is presented here is a further aggregation to the level of the whole sample of students. At this higher level, the data can only provide at best a general overview of student perceptions.

In terms of the number of comments made, whether they be statements or reasons, the "positive" comments ("likes", "helps learning") outnumber the "negative" comments ("dislikes", "hinder learning") almost 2:1. It is difficult to know whether that is a satisfactory ratio or not for at least two reasons: First, there is no similar data available that can be used as a comparison and second, any criterion used as a baseline is a value-judgement anyway. What is probably an acceptable value-judgement however is that at least the ratio is not 1:1 or 1:2.

As might well be logically expected because of the focus here on learning environments, there are strong links between what students say they like and what they claim helps them learn on the one hand and what they don't like and what they believe hinders their learning on the



other. In other words, there is a high correlation between the affective ("like/dislike") and the more, but not exclusively, cognitive ("help/hinder learning") dimensions of classroom life.

Some specific comments:

Students like it and also believe it helps their learning when they are exposed to practical applications and/or learn by experience, when material is clearly presented and when discussion occurs. They also like it when the size of the class is appropriate for the activity being undertaken and the classroom is personalised and claim that their learning is facilitated by a lecturer who asks questions and generally supports their learning. The reasons why students like these activities and behaviours and believe that they help in their learning are that the activities and behaviours satisfy their learning needs by increasing their understanding, increasing the amount they learn and making their learning easier. Students also like things that increase their interest and promote an informal and personal learning environment. Further, they believe that their learning is enhanced by activities which promote consolidation and integration of knowledge and provide a variety of views.

Students don't like it and believe that their learning is hindered when the pace, structure and clarity of presentation is poor, when there is lack of variety in classroom presentation and when disruptive students or activities are not controlled by the lecturer. Further, students don't like unstructured discussion and feel that their learning is interfered with when the size of the class is not appropriate for the activity being undertaken. The reasons why students don't like these activities and behaviours and believe that they hinder their learning are that the activities and behaviours do not satisfy their learning needs because their understanding and the amount they learn is decreased while learning is made more difficult. Students also



don't like to have their time wasted and believe that their learning is hindered by uninteresting and unvaried activities.

In the context of contemporary views of effective teaching and learning (e.g. Biggs, 1989, 1990; Dart and Clarke, 1991; Ramsden, 1988), these perceptions are a cause for concern. The students' view of effectiveness is associated with effective *transmission* of information. Students see themselves as passive recipients of well structured and presented material; nowhere in their perceptions do the notions of the development of understanding, the promotion of autonomy and student control over their learning occur. However, the findings do confirm two significant things: students believe they are capable of making judgements about what is good and poor teaching and how both can influence their learning; and second, they claim that they experience both at QUT.

Conclusions and Future Developments

There are two major concerns arising out of this data:

First, the prevalence of the perceptions of poor teaching, even given the 2:1 ratio of favourable to adverse comments, has implications for those in Universities responsible for monitoring and improving teaching. Second, and of major concern is the limited and traditional view students have of effective teaching. The challenge is there for lecturers to revamp their approaches to teaching to allow, indeed to require, students to take more responsibility for their learning and construct their own understandings. For this to happen however, lecturers themselves need to become aware of the importance of this constructivist approach and develop the skills, beliefs and most importantly the confidence to teach in this way. This process of professional development is the ongoing outcome of the T&LiTE



The data collection and analysis procedure discussed here seems to have the capability of providing lecturers with comprehensive qualitative feedback relatively simply. This has been done in the T&LiTE Project (Clarke and Taylor, 1993).

Further analysis of the data based on Faculty and year of course will provide additional information about the perceptions and motivations of different sub-groups of students. Also, the potential is there for the categories to be further aggregated into broad dimensions which, along with specific comments made by students, could form the basis of a more comprehensive set of quantitative scales than is currently available.

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APPENDIX 1: Questionnaire Formats for "Dislike", "Help" and "Hinder" Sections of the questionnaire

Learning Environments

LARGE GROUP LECTURES where there are more than 50° students;

SMALL GROUP LECTURES where there are between 25 and 50 students:

SEMINARS/TUTORIALS where there are less than 25 students;

ONE-TO-ONE TEACHING, just student and lecturer/tutor; PRACTICAL SETTINGS ON CAMPUS such as laboratories, gymnasia etc.

PRACTICAL SETTINGS OFF CAMPUS such as work environments, schools, hospitals etc.

* Numbers are approximate

"Dislike"

EVENTS YOU DISLIKE

For the subject you are now in, think about learning environments you have been in which you felt were unpleasant places to be. In your own words, please indicate what made the environments unpleasant and why. Give as many examples as you can from the different learning environments listed above.

"Help Learning"

EVENTS THAT HELP YOU LEARN

For the subject you are now in, think about the behaviours and activities of lecturers/tutors and students which you feel have helped you learn. In your own words, please describe these behaviours and activities and also indicate why they helped you learn. Give as many examples as you can from the different learning environments listed above.

"Hinder Learning"

EVENTS THAT HINDERED YOUR LEARNING

For the subject you are now in, think about the behaviours and activities of lecturers/tutors and students which you feel have hindered your learning. In your own words, please describe these behaviours and activities and also indicate why they hindered your learning. Give as many examples as you can from the different learning environments listed above.



Appendix 2 Examples of Statements and Reasons Categories

	9 ,	is not lebie for	for	8 3	rly.	tely to a
Megative Pole (-)	Inappropriate Inappropriate Information. 'Sectures are forced to cover large bodies of information in a relatively shore time."	Unavallable spear des not appear to mak him/herself available (after lecures) for consultation.	Unavallable There is not enough equipment/material for each student.	Unavore Tactures essume you know things." The lecturer sets us certain goals too early."	Upclear The tutor does not explain things clearly."	Executives I feel I am not responded to deguately because I am female. Preference is given to male respons. The lecturer continuously voices his/her disapproval towards young students studying this course.
¥	I AS Infors Lactu Cover Infors relati	The trapper nime trapper nime trapper (after consul	There equips	Tecture true la Certal	The exploi	respon respon becaus Prefer male r The contin historia
Posicive Pole (+)	Appropriate 'A reasonable amount of information is covered."	Available The tutor is readily evailable to answer my questions. The lecturer makes bisself evailable for consultation.	Available The lecturer places lecture meterial in the limited access collection."	Avaica They speak in layman's terms, assuming the hnowledge of the subject is limited. The lecturer tries to understand my learning meeds.	Clear Things are explained well. The turor explains step by step how to do things.	The turor speaks to everyone, not just one person (student)."
Statement	There is an appropriate amount of information.	Availability of lecturer.	Aveilability of resources/ equipment.	Lecturer's avarances of students' knowledge base/needs.	Clarity of the presentation by the lecturer.	Equity of transment of students by lecturer.
ė		~	"	•	n	•

5	Statement	FOSITIVE FOLS (+)	Megetive Pole [-]
	Disciplining of class by lecturer.	Disciplinad The lecturer can keep control of the lecture by making it more interesting.	MOL. Disciplined Tober students talk all the time and lecturers do not stop them.
-	Discussion of course content among students.	OCCURS 'We are encouraged to work with other students on problems."	Poss not Octuk The student giving the seminer just reads the information.
	Discussion of course content between lecturer and students.	The tutor encourages active student participation in discussion. There is discussion amongst students and the lecturer.	Mose not occur the late, sars don't include the students.
2	General discussion of course content (participants usspecified).	OCCURE The lecturer encourages group discussion.	Doss not Occur Discussion isn't generated, or when it is very limited, one-sided, shallow, or set really cared for.
=	Enthusiasm of the lecturer.	Enthusiastic The lecturer is reelly arcited about teaching the subject.	Mor Enthusiastic The lecturer drones on without esthusiasm."
12	Equity of status between lecturer and students.	EGGALY The teacher does not appear as an authority figure. The teacher treats me as an equel and not inferior.	lecturer Superior 'We have lecturers who are petronizing." 'Lecturers feel they are superior to their students."
2	Domination of classroon by some students.	No positiation 'In a group we work cooperatively end in a motivated way. "Everyone has a chance to woice their opinion.	Some Dominate octons the discussion. "A student dominates the group and controls the lecture."
=	The cless has e break.	Reak 'We have a ten minute break.' 'We are given breaks on the bour.'	No Break The lecturer goes straight through without a break for more than 1.5 hours.

	11	rasrat	~ =). (d	1 X	101 H G	176164	- 40	_`
EDIC:	Statement	The lecturer is humorous/entertaining.	Provision of feedback by lecturer on assessment.	Provision of feedback by lecturer to class.	Informal atmosphere in classroom.	Students are able to provide input into assessment.	Students are able to provide input into course content.	Effect on learning etrategies of etudents.	
Full Text Provided by ERIC	ġ	S	*	11	=	81	20	12	<u>.</u>

Statement Positive Pole (+)	itive Pole	(+)	Negative Pole (-)
The Control of the Co	EMBOUK CCTUTET US 13 ARECCOCK 10UT THE 10 CCTUTET PT	ture.	No Bumbuk "The lecturer is dry and boring."
reedback Freedbacks is given on assignments."	reedback icks is giv	20 DB	No Feedback of the season of assignments." The tron. fails to make an attempt to explain their marking technique."
Provision of feedback "Our tutor gives u. by lecturer to class. plenty of positive feedback."	Esadback stor gives of positi	85 g	No/Negative Feedback There is no feedback.
Informal atmosphere in 'We feel cosfortable vith each other." The environment is less formal."	Informal al comforta ach other.	is less	Formal restricting."
Students are able to "The tutor asks our provide input into opinions on assessment." You are able to negotiate marks through contract learning."	Input utor asks on asserte able to ste marks tt learning	our pssment." o through	No Input The assignments are not negotiated.
Students are able to "The class is involved provide input into in the way the course goes." "Students are able to design the content of lectures."	Input lass is inv way the co	rolved ourse te to ut of	The area for discussion is restricted and mapped out." The tutor assumes too much control of the learning session."
Effect on learning 'I am able to actively functegies of fuvolve myself in problem solving."	Eqiped Able to act A myself in Solving.	ively	Hindered -
Openness, friendliness, and have a relaxed, friendly epproachability of personality."	Open eacher apporelaxed, ality.	ears to friendly	Not Open "The tutor is unapproachable."

				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Negative Pole (-) Not Mall Organizad The room is set up always in rows."	Not Outgoing "The tutor is stand- offish."	Not Appropriate The lecturer ruches through information and subject matter."	No. Support "I know what I want to achieve but do not have sufficient instruction."	Not Rersonalized The tutor after eight weeks has not bothered to learn our names."	Not Confortable. "The rooms are too warm." "We are in a freezing room with a wall of glass and wind blowing outside."	No Fractical Learning "The lacturer doesn't give us very much time on the computers."	Poor Quality Tractures use old, faded, poorly outlines OBT's."	No Ouestions "You cannot ask questions."
Positive Fole (+) Organized Well Desks, chairs are arranged in an informal way, e.g. in a circle rather than rows."	Outgoing Personality.	Appropriate "The lecturer spends time focusing on a topic." The lecturer speaks et a relaxed pace.	Support The lecturer takes a personal interest in	Personalizad "Ne're introduced to each other."	Comfortable "The room is not completely full." "I can see and hear at all times."	Practical learning *Practical everyday examples are given to support a point. *The tutor brings the content into everyday practical examples.	Good Quality "Overheads are clear, logical, and understandable."	Ouestions Other student ask questions. The lecturer encourages students to ask questions during the course of the lecture.
Statement Organization of space in the classroom.	Outgoing behaviour of lecturer.	Pacing of presentation by lecturer.	Provision of personal support by lecturer.	Personalized classroom.	Students feel physically comfortable.	Practical application/ experiential learning occurs.	Quality of audio visual resources.	Students are able to ask questions.
70. 23	72	25	26	27	2	58	8	18



o. State	Structi content lectur		Support fro		towards the assessment/ load.	Tesources.	human reson	Perceived u	G Use of a va clessroom/ presentatio activities.
N.	\$		7	2		2	3	3	9
Megative Pole (-)	No Questions The tutor does not ask you the questions.	NO RADDOCT "The lecturer seems to lack any rapport with students."		Mot Relevant "The problems are not related to the specific task at hand."	No Repetition "pifficult practical points are covered only once."	No. Revåse	Disliked "All other tutorials do their homework in their tutorials and we are	Mork." Insporcoriate Size A group has over 15 members." There are too many people, over 80 or 90."	No Small Groups "There is insufficient time for group work."
Doctrive Pole (+)	Questions The lecturer asks probing questions."	Ranport 'I am able to develop a good working relationship with the lectures."	The lecturer has a pleasant rapport with the students.	Relevant rou see it how it really is." There is new and relevant information."	Repetition The lecturer repeats an important fact more than once."	Review The lecturer discussed previous weeks theory questions.	Taked "Ressonable study exercises are given. "A task is given to	Appropriate Size Te is only a small group, preferably under	Small Groups The lecturer/tutor asks us to form a group of six or so and discuss something.
***************************************	The lecturer eaks the class questions.	Rapport of lecturer with class.		Relevance of the content/experience.	Repetition of information by lecturer.	Review of material by lecturer.	Students' feelings towards the setting of out-of-class work by	Size of class.	Occurrence of small group activities.
3	32	33	_	35	8	36	37	38	2

[1		Don't day of the Carlot of the Carlot	The section of the se
	٤	200000000000000000000000000000000000000	LOSTOT BOTOT	Medactve Pote
c ask	Q	Structuring of content/discussion by letturer.	The subject is structured and organized.	The lecturer rambles on."
is to			"lecturers have material either themed or chronologically ordered."	1
anot estic	<u> </u>	Support from peers.	Support "Students collaborate and provide a positive learning environment."	Mo Support People do not share their resources (information, exicles, books, contects, etc.)." "Cliques form among
n al only	2	Students' feelings towards the type of assessment/ assessment load.	Liked "Students are not bombarded (given too many assignments)." "We get assassed on a satisfactory/ unsatisfactory basis."	Disliked "We have to answer large amounts of multiple choice questions."
	‡	Use of audio-visual resources.	We see slides of the art work we are talking about."	Not used The lecturer does not provide audio-visual
is do their	3	Use of a variety of human resources.	Yaristy "We have a guest lecturer from the	No Variety
3329 15 17 19	\$	Perceived use of time in class.	Used Wall The lecturer stays on track of the subject." There is time for everyone to express an opinion if they so desire."	Misused We waste too such time with chit chat or with issues not relevant to the course." We use valuable lecture time to fill in research questionnaires."
No	9	Use of a variety of clessroom/ presentation activities.	Variety "Things are explained in different ways and with different weddums: (visual, oral, etc.) "The tutor gives us a "The tutor gives us a sethods in the one evening.	No Variaty "The lacturer speaks continuously for the full lacture, reading from notes:"



	***************************************	Positive Pole (+)	Negative Pole (-)
į			No Variety
;	Une of a variety of learning environments.		"Organizations don't want to help uni students."
		outside the building. "We go out of the classroom to do simple field studies."	. sndero
:	Lecturer's expertise in content area.	Expertise The lecturer knows what he is talking about."	No Expertise "The tutor appears to not know their work." "The tutor is not specifically trained in
- \$	Students' feelings of locus of control.	Internal 'I have to research for syself."	External Ext
S.	Students' feelings/ characteristics.	Resitive 'I am involved in (work)situations where I can apply the theory in reality. "I can go home."	
			attention to the Major concepts/ information presented.
15	Lecturer's support of students' learning.	Support "Lacturers give out comprehensive handouts." "The lecturer gives us ideas to think about later."	An overview of the semester, lecture topics, assessment etc. is not given." The lecturer uses OHT's but does not leave them up long enough and doesn't state the information is in the book."
25	Students interest in/like for content of	Interest We listen to something that is interesting.	No Interest "The lecture is long, drawn out, and boring."
3	students' personal involvement in their learning.	Involved "I have to discover information for myself." "I feel that I will gain what I want to in the vay of learning."	NOT INVOLVED

No.	Statement	Positive Pole (+)	Negative Pole (-)
25	Personal qualities of lecturer.	Liked "The lecturer seams totally genuine."	Disliked "The lecturer is racist." "The lecturer is impationt."
35	Consistency of lecturer(s) in course.	One Lecturer	Incturers Change "The lecturers take it in turns to give the different topics."

Positive and negative examples of the reason categories.

Š	Reason	Positive Pole (+)	Negative Pole (-)
-	Access to the lecturer's perspectives/ viewpoints.	Access "I benefit from a different frame of reference from in authority figure, in relation to my studies." "The turor answers the questions better."	No Access "A lot of lecturer information gets missed."
N	Access to students' perspectives/ viewpoints.	Access I like working with people because you get more ideas." I't allows maximum student input." I't allows us as redect of a serial students of a serial students of a serial students to the subject."	No Access "Students are not given the opportunity to provide opinions."
Е	Access to a variety of parapectives/	Access "It allows students to hear other peoples' views and opinions on the subject."	No Access "It does not allow the expansion of one's ideas by other peoples' thoughts."
]	Effect on anxiety/stress/embarrassment.	Decreased "It puts students at ease." "This eases the stress of new experiences and reduces some of the	Increased "Sometimes you're made to feel less than smart."

Q	Resson	Positive Pole (+)	Negative Pole (-)	No.	Reason
_	Lecture is aware of students' knowledge/ needs.	Aware I know she is understanding on the newness of tertiary study to me."	Unaware "I have had some of this work before and it is boring to do it again." "I feel they are less likely to know my ability (or lack of)."	11	Provision of
	Effect on clarification/ understanding of lagrning.	Increased "I feel It is important to clarify things I am uncertain of." "It gives me the chance	Decreased "It is difficult to grasp the concept." "It does not help me	12	Effect on frus
		to have particular misunderstandings cicrified."	issue or idea." "I find it hard to understand- not knowing why and where certain things are obtained." "It is confusing."	13	Provision of direction/ sugar lacturer.
_	Effect on concentration.	Increased "My attention remains focussed."	Decreased "I find It hard to concentrate on the	=	Opportunity for
	Effect on consolidation/ integration of learning.	Increased "It is easier to see the connections in the material." "I can easily associate	Decreased "It makes it difficult to assimilate the subject of the lecture."	_	learning.
		the new work with existing studies." "It enables me to relate theory to practice."		15	Effect on the
	Effect on desire to learn/ motivation.	Increased " makes you glad you're doing the subject. It gives you that little bit more	Decreased "You start asking yourself- why bother."	16	
10	Effect on enjoyment of learning.	incentive." Increased "This makes it a pleasure being here."	Decreased "You dread the thought of coming to the next tutorial."		Effect on the of interaction participation
- 1				17	Effect on the

	No.	Reason	Positive Pole (+)	Negative Pole (-)
9	11	Provision of feedback.	Provided "You input your ideas and can get feedback on them."	Not Provided "I can't determine whether my idea could be "lustified." "The tutor fails to make an attempt to explain their marking
	12	Effect on frustration.	Decreased "People don't get frustrated."	Increased "I become frustrated,"
	13	Provision of guidance/ direction/ support by lecturer.	Guidance "You know they are there to help if you need it." "It shows his concern for us and his	No Guidance "This makes me frei alone and unguided." "I feel so lost without guidelines and don't really know what is expected of me."
-	14	Opportunity for individualized learning.	Incleased "It enables us to set our own learning framework."	Decreased "It stiffs the individual learning experience.""It makes the tutor's job impossible to give everyone the help they
	15	Effect on the amount/ ease of learning.	Increased "It facilitates my learning." "It broadens my knowledge base further." "It makes learning much	Decreased "You have gained nothing out of the lecture."
	16	Effect on the amount of interaction/participation.	Increased "Students will talk and communicate better with the tutor."	Decreased "It discourages the students from participating." "There is little chance to be actively involved."
\neg	17	Effect on the provision of pear support.	Increased "It creates a supportive network between students."	Decreased "People are left out and made to feel not wanted."



	Student: Ways of	Effect prepara assessed		Effect lecture class.	Effect materia	Satisf	. spe	Satisf studen needs.	
ж	25	26		27	78	29		30	
Negative Pole (-)	Not Promoted "It makes it a tense environment for people who are trying to copy (OHT's) down."	Decressed "I lose interest." Decressed	"It doesn't make it practical for me,	cnorerote isn't remembered and utilized."	Pecreased "You feel apart from the lecture." "It gives me no scope to use my initiative." "There is no personal involvement."		Decreased "You can't organize your time with other things to maximize efficiency."	Decreased "It is difficult to get comfortable both physically and emotionally." "There is no room to move."	"Some students tend to dominate the whole time."
Positive Pole (+)	Promoted "It creates a friendly class atmosphere." "It makes for a more relaxing learning		"Ne find out how to use a program through trial	i	Increased This enables students to become more involved in the learning experience." This enhances the		Increased "It helps me to discipline myself and start some work."	Increased "Ne feel fresh."	Equal.
Reason	Promotion of an informal/ personal etmosphere.	Effect on interest in learning.	Effect on learning by experient	application.	Effect on students' personal involvement in their learning.		Effect on personal organization of learning.	Effect on students' physical comfort.	Equality of student- student relationships.
° ×	91	19	50		21		22	53	72

92	Reason	Positive Pole (+)	Negative Pole (-)
25	Students' preferred Ways of learning.	Supported "I think I learn better that way." "I find it the best way to learn."	Not supported "It blocked my process of questioning and teasing issues out, so that I could learn more effectively."
26	Effect on students' preparation for assessment.	Assisted "It specifies the need to do additional reading." "Students need this time in order to complete their diary log book."	Hindered "We do not have enough time to gain knowledge before an assignment is due to be handed in."
27	Effect on rapport of lecturer with the class.	Increased "you like the lecturer and sense they think you're okay."	Decreased "She's not funny and she has a sick sarcastic sense of humor."
28	Effect on relevance of material.	Increased "It gives a dimension of relevance to the subject that may otherwise be lost or overlooked."	Decreased "Sometimes it is difficult to see the relevance of theory."
53	Satisfaction of students' learning needs.	Increased "It maximizes my learning needs." "It allows the course to fulfill our needs, not just an academic standard."	Decreased "You can't get the information down." "The majority of students are not getting their needs met."
90	Satisfaction of students' personel needs.	Increased "It encourages social skills." "Networks are important both at uni and in the real world." "It helps you to look at your own feelings, thoughts, and values on the subject."	Decreased "There is always plenty of other things we could be doing including academic work and social."



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	Reson	Positive Pole (+)	Negative Pole (-)	NO.	Reason	Positive Pol
Effect on students' control of their learning/ assessment	on students' of their iq/ assessment.	Increased "It means you can experiment and learn yourself." "It gives us the responsibility for our	Decreased "It's disempowering." "I feel very restricted and can't give my best."	37	Effect on discipline in class.	Increase "People pay mor attention and d as many distrac
Effect on task orientation.	task n.	Increased clearer and committed to my own ideas. "It makes association and commitment to learning more effective."	Decreased "You get used to how a lecturer lectures, and it is hard to change patterns mid-subject."	ж К	Effect on students' confidence in their own ability.	Increase Increase Confidences my "It enables you more confident areas you may b problems with."
		"It makes it easier to establish a study pattern."		39	The lecturer is open/ friendly/	Yes "I know I can the let I don't
Promotion of thinki	of thinking.	Promoted "It helps me think in an incelligent way." "It stimulates us to	Restricted "There are no thought processes involved."		approachable.	understand some "I find it eas: approach them i
		think and formulate an opinion."		\$	Students are able to	
Treatment as &	as a person/	Increased "It makes me feel like	Decreased I feel like they are		ask questions.	afraid to / k question."
individuel.		an individual."	speaking to a metu or cattio." "This makes me feel insignificant."	=	Equality of lecturer- student relationship	Eguant gives peopedual right to "The lack of fand dominance
Use of ti	Use of time in class.	Appropriate "Time is not wasted, and				an effective I environment."
		important work is not overlooked because of lack of time."	C156	\$	Availability of resources / aquipment.	
		Increased	Decreased			resources.
Variety of led	Variety of Learning opportunities.	util gives a bit or variety." "It is a good contrast to the teaching style of lectures - variety is the spice of life."	1	43	Effect on assessment load.	Suitel Fit allows for to share the Fit am not doil unnecessary r

	Š.	Reason	Positive Pole (+)	Negative Pole (-)
	37	Effect on discipline in class.	Increased "People pay more attention and don't make as many distractions."	Decreased "The lecturers, no matter how good they are, can never seam to control everyone."
	38	Effect on students' confidence in their own ability.	Increased "It boosts my confidence." It enables you to be more confident about areas you may be having problems with."	Decreased "Confidence can be lost if others are side tracked." "You don't feel you don't know or count for much."
	38	The lecturer is open/ friendly/ approachable.	Yes hi know I can approach her if I don't understand something." "I find it easier to approach them when I have a problem."	No unapproachable."
	1 2	Students are able to ask questions.	Questions "Students are less afraid to / 'k a simple question."	No Questions "Unavailability to ask questions."
	<u> - </u>	Equality of lecturer- student relationship	Equal. "It gives people an aqual xight to voice." "The lack of friction and dominance allows for an effective learning environment."	Unequal "It is intimidating."
	\$	Availability of resources / equipment.	Available "There is adequate equipment and available resources."	Not Available
	<u> </u>	Effect on assessment load.	Suitable "It allows for Students to share the Workload." "I am not doing unnecessary research."	Too Hoavy "Ne already have a heavy workload."
ĺ]			

٥.	Reason	Positive Pole (+)	Negative Pole (~)
S.	Perceived fairness in grading of assessment.	Fair and believe she is fair and open to changing any requirements that are unreascnable or unfair."	Unfair I receive a grade that I believe is less than What I deserve or what other tutors are giving for the same work."
9	Lecturer's exportise in content area/ presentation.	Expertise -	No Expertise "I feel that the lecturer is not always right."
2	Lecturer's interest in students and/or their learning.	Interest "We have the feeling that the tutor is concerned about us."	No Interest "It shows the teacher's lack of genuine interest in the students' understanding of a topic."

			Year			772 - 1 - 1
Course	1	2	3	4		Total
Bachelor of Social Science		65	42.			107 9.1%
Bachelor of Business	362	257	136	10	2	767 64.9%
Bachelor of Nursing	22	6	36			64 5.4%
Bachelor of Education	78	48	45	1		172 14.6%
Master of Computer Science	1					.1%
Master of Applied Science	4	3				.6%
Bachelor of Arts		1	1			.2%
Bachelor of Business/Law	35					35 3.0%
Graduate Diploma in Business	12	3	1			16 1.4%
Master of Business Administration.				1		.2%
Graduate Diploma in Commercial Computing	3	1				.3%
Bachelor of Applied Science		2	1			3.3%
Totals	517 43.8%	387 32.8%	262 22.2%	12 1.0%	.3%	1180 (94.5%
No information						69 5.5%
	1				Total	1249 (100%

Table 1 Student sample (Course 1 Year)

	Cat No	Description of Category	N of comments	of comments
		STUDENTS LIKE IT WHEN Total Comments: 2198		
1	29	Practical application/experiential learning occurs	551	25%
2	5	Presentation/explanation by the lecturer is clear	339	15\$
3	10	Discussion of content occurs (participants unspecified)	307	148
4	38	Class size is appropriate	209	10\$
5	27	The classroom is personalized	142	6₹
		STUDENTS DON'T LIKE IT WHEN Total Comments: 1430	-	
1	-25	Pacing of presentation by lecturer is not appropriate	329	23%
2	-5	Presentation/explanation by the lecturer is unclear	211	15%
3	-46	There is no variety in classroom presentation/activities		10%
4	-7	Class is not disciplined by the lecturer	100	78
5	-40	Content/discussion is not structured by the lecturer	90	6\$
		LEARNING IS HELPED WHEN Total Comments: 1630		
1	29	Practical application/experiential learning occurs	511	318
1 2	29	Practical application/experiential learning occurs Presentation/explanation by the lecturer is clear	511 341	31% 21%
_	1 1	Presentation/explanation by the lecturer is clear	511 341 162	21%
2	5		341	
2	5 51	Presentation/explanation by the lecturer is clear The lecturer supports students' learning	341 162	21 % 10 %
2 3 4	5 51 32	Presentation/explanation by the lecturer is clear The lecturer supports students' learning The lecturer asks the class questions	341 162 118	21\$ 10\$ 7\$
2 3 4	5 51 32	Presentation/explanation by the lecturer is clear The lecturer supports students' learning The lecturer asks the class questions Discussion of content occurs (participants unspecified) LEARNING IS HINDERED WHEE Total Comments: 1104	341 162 118 113	21\$ 10\$ 7\$ 7\$
2 3 4 5	5 51 32 10	Presentation/explanation by the lecturer is clear The lecturer supports students' learning The lecturer asks the class questions Discussion of content occurs (participants unspecified) LEARNING IS HIEDERED WHEE Total Comments: 1104 Class is not disciplined by the lecturer	341 162 118 113	21\$ 10\$ 7\$ 7\$
2 3 4 5	5 51 32 10	Presentation/explanation by the lecturer is clear The lecturer supports students' learning The lecturer asks the class questions Discussion of content occurs (participants unspecified) LEARNING IS HINDERED WHEE Total Comments: 1104 Class is not disciplined by the lecturer Pacing of presentation by lecturer is not appropriate	341 162 118 113	21\$ 10\$ 7\$ 7\$ 22\$ 20\$
2 3 4 5 5	5 51 32 10 -7 -25	Presentation/explanation by the lecturer is clear The lecturer supports students' learning The lecturer asks the class questions Discussion of content occurs (participants unspecified) LEARNING IS HIEDERED WHEE Total Comments: 1104 Class is not disciplined by the lecturer	341 162 118 113	21\$ 10\$ 7\$ 7\$

(*) This data is to interpreted as follows:

2198 statements were made about what students liked. 551 Of these statements or approximately 25% of the total of 2198, were about practical application and/or experiential learning

Table 2: Summary of Students' Statements about their Learning Environments

Cat No	Statement and Associated Reasons	No of comments	t of comments
S29	I like it when Practical application/experiential learning occurs		
R6 R8 R28 R15	hecause It increases clarification/understanding It increases consolidation/integration It increases relevance It increases the amount/ease of learning	145 88 61 59	25% 15% 11% 10%
\$5	Total No of Reasons: I like it when Presentation/explanation by the lecturer is clear	576	
R6 R15 R29	because It increases clarification/understanding It increases the amount/ease of learning Learning needs are satisfied	152 51 43	37\$ 13\$ 11\$
S10	Total No of Reasons: I like it when Discussion of content occurs (participants unspecified)	407	
R3 R6 R15	because There is access to a variety of perspectives/viewpoints It increases clarification/understanding It increases the amount/ease of learning	89 61 32	25% 17% 9%
538	Total No of Reasons: I like it when Class size is appropriate	361	
R18 R14 R15	because It promotes an informal/personal atmosphere It increases individualized learning	32 31 27	13% 12% 11%
S27	Total No of Reasons: I like it when The classroom is personalized	251	
R18 R34 R4		55 34 21	23\$ 14\$ 9\$
	Total No of Reasons:	241	

Table 3 "Like" Statements and Associated Reasons

Sxx : Positive Pole of Statement Category xx Rxx : Positive Pole of Reason Category xx





No	Statement and Associated Reasons	No of comments	% of comments
(S25)	I dislike it when Pacing of presentation by lecturer is not appropriate		
	because		
(R29)		103	29%
(R6)	It decreases clarification/understanding	101	28\$
(R15)	It decreases the amount/ease of learning	44	12\$
	Total No of Reasons:	361	
	I dislike it wher		
(S5)	Presentation/explanation by the lecturer is unclear		
	because		
(R6)	It decreases clarification/understanding	92	413
(R15)	It decreases the amount/ease of learning	30	13\$
(P29)	Learning needs are not satisfied	24	111
	Make) No of December	000	
	Total No of Reasons:	227	
(S46)	There is no variety in classroom presentation/activities		
	•		
(R19)	because It decreases interest	40	000
(R7)	It decreases interest It decreases concentration	48 20	30% 12%
```'	TO MONTONION CONTOUNTED TO IT	20	124
1	Total No of Reasons:	162	
/aa\	I dislike it when		
(S7)	Class is not disciplined by the lecturer		
	because	!	
(R7)	It decreases concentration	80	51%
(R6)	It decreases clarification/understanding	24	15%
İ			
İ	Total Wo of Reasons: I dislike it when	156	
(S40)	Content/discussion is not structured by the lecturer		
	-		
/nc\	because		
(R6)	It decreases clarification/understanding It wastes time	31	24%
(R35)	Learning needs are not satisfied	26 21	
		71 1	
(R29)	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		

Table 4 "Dislike" Statements and Associated Reasons

(Sxx): Negative Pole of Statement Category xx

(Rxx): Negative Pole of Reason Category xx



Cat No	Statement and Associated Reasons	No of comments	t of comments
S29	It helps my learning when Practical application/experiential learning occurs		
R6 R8 R15 R20	hecause It increases clarification/understanding It increases consolidation/integration It increases the amount/ease of learning It increases learning by experience/practical applicn	166 102 43 43	32\$ 20\$ 8\$ 8\$
	Total No of Reasons:	517	
<b>S</b> 5	It helps my learning when  Presentation/explanation by the lecturer is clear		
R6 R15 R29	because It increases clarification/understanding It increases the amount/ease of learning Learning needs are satisfied	167 38 28	47% 11% 8%
S51	Total No of Reasons:  It helps my learning when The lecturer supports students' learning	356	
R29 R6	because Learning needs are satisfied It increases clarification/understanding	41 40	22% 22%
S32	Total No of Reasons:  It helps my learning when  The lecturer asks the class questions	185	
R6 R33	because It increases clarification/understanding It promotes thinking	43 31	27 <b>%</b> 19 <b>%</b>
S10	Total No of Reasons:  It helps my learning when  Discussion of content occurs (participants unspecified)	160	
R3 R6	because There is access to a variety of perspectives/viewpoints It increases clarification/understanding	65 36	34 <b>%</b> 19%
	Total No of Reasons:	190	

Table 5 "Help learning" Statements and Associated Reasons

Cat No	Statement and Associated Reasons	No of comments	t of comments
(S7)	It hinders my learning when Class is not disciplined by the lecturer		
(R7) (R6)	because It decreases concentration It decreases clarification/understanding	126 39	55 <b>%</b> 17 <b>%</b>
(S25)	Total No of Reasons: It hinders my learning when Pacing of presentation by lecturer is not appropriate	229	
(R29) (R6) (R15)	hecause Learning needs are not satisfied It decreases clarification/understanding It decreases the amount/ease of learning	72 66 38	30% 27% 16%
(S5)	Total No of Reasons: It hinders my learning when Presentation/explanation by the lecturer is unclear	244	
(R6) (R29)	because It decreases clarification/understanding Learning needs are not satisfied	55 23	38 <b>%</b> 16 <b>%</b>
(S38)	Total No of Reasons: It hinders my learning when Class size is not appropriate	146	
(R40)	because Students cannot ask questions	11	13%
(S46)	Total No of Reasons: It hinders my learning when There is no variety in classroom presentation/activities	82	
(R19)	because It decreases interest	17	27\$
	Total No of Reasons:	64	

Table 6 "Hinder learning" Statements and Associated Reasons